GEOLOGICAL SURVEY

OF

CANADA

G.S.C. 145-S

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CANADA

Department of Energy, Mines and Resources

Geological Survey of Canada

NOTE BOOK

No 87-001

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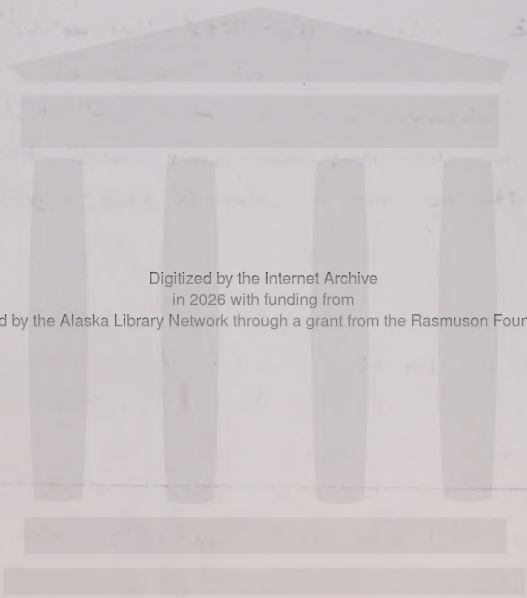

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(1)

87-001 Ontario, Constance Bay on Ottawa River 13 June 1987
Myriophyllum alterniflorum.
Plants from water to 50 cm deep
45°29'N - 76°04'W. 525852
coll. S.G. Aiken + Lisa Standley

(1)

87-002 (site as 87-001) Myriophyllum alterniflorum Plant material from deeper water washed onto sandy beach; transitional stems and stems with land form plants with very short leaves 853

87-003 MANITOBA Riding Mountain National Park; Audi PRAIRIE
27th June with Debbie Tossak
Fescue mixed grass prairie 50°45'N. 100°15'W

87-003 Bromus porteri (1)
common in both the frequently burnt area and the infrequently burnt site Inflorescence drooped at tip 854

87-004 Festuca saximontana (1)
as (87-003) but only seen in less frequently burnt site
Anther 1.2 mm. 855

87-005 Alberta University of Alberta: ELLERSLIE RESEARCH STATION, EXPERIMENTAL FIELD LAB. 53° 26'N 113° 30'W
S.G Aitken collector
1 July 1987

Festuca trachyphylla (2 LABELS)
Leaves to 25cm

87005 Short inflorescences 3.5 - 5 cm long, on tall culms; early season short culms + inflorescences formed after May 19 snow storm. Lemmas with sparse marginal hairs. Anthers 2.6 mm 525856

87006 Festuca trachyphylla (1 label)
Short leaves all less than 10 cm vivid BLUE GREEN glaucous when collected. Leaf cross section 7 bundles + well defined ribs; lemmas glabrous 857

87007 Festuca trachyphylla (2 label)
Leaves to 15 cm Adjacent plants at different stages of maturity lemmas glaucous, scabrous only near awn Anther 2mm 858

87008 Festuca trachyphylla (3) 859
Leaves to 30 cm Culms vividly red at time of collection. lemmas almost glabrous WET ANTHER 2.6MM

Festuca trachyphylla (3)
87009 / RED CULMS on EARLY 1987 inflorescences growing to height of 35 cm Short culms, ca 15 cm on late 1987 inflorescences Leaves to 30 cm. Lemmas almost completely glabrous: anther 2.5mm 860

87-010 Festuca trachyphylla (4) 861
YELLOW GREEN LONG LEAVES to 30 cm long Culms bright red, when fresh Anther 2.5mm lemma's with marginal hairs.

87-011 Festuca trachyphylla (3) 525862
BLUE GREEN GLAUCOUS LEAVES TO 20 cm Culms reddish
lemmas with marginal hairs: anthers 2.1mm

Festuca trachyphylla (1)
87-012 / Shortest culm among leaves with vegetatively proliferating spikelets 863
lemmas sparsely scabrous on margins and near awn; elsewhere glabrous Anther ca 2.0mm

87-013 Elymus lanceolatus (2)
ssp. albicans 864

Somewhat allopathetic in field

87-014 Elymus lanceolatus (2)
ssp. lanceolatus
So highly allopathetic that it inhibits it's own flowering in centre of plot. Sample from edge.
Acetylene 8C compound causing the allopathy has been extracted and is to be developed as a natural 525 865
herbicide.

87-015 (2)
Koeleria cristata
Inflorescences at different stages of development. Shattering time ranging over 4 weeks, made this species undesirable as a trade cultivar for low maintainance grass selection. The very character might make it good for horticulture. 866

87-016 Festuca rubra cultivar (1)
growing with F. trachyphylla in abandoned experimental garden 867

87-017 Festuca rubra cultivar (1)
growing with F. trachyphylla, This very heavy F. rubra is widespread in ALBERTA JUDGING FROM SPECIMENS
868

seen at ALTA [U. of Alberta herbarium].

525869

87018 Poa glauca Tundra (1)
blue grass selection for low maintenance grass. A selection of this species has been developed in Alaska. Ref. Mitchell, W.W. 1978 Development of plant material for revegetation in Alaska. p 101-115 In: S.T. KENNY (ed.). High Altitude Revegetation Workshop No. 3 Col. State Univ. Fort Collins, Colorado.

87019 Poa 870 (1)
Growing as a weed in grass trials.

871

87020 Festuca trachyphylla (2)

Height forms: short and tall culms on the same plant. Both formed 1987 Plants at field station were burnt in the fall to prevent field mice making winter homes among the dead leaves and killing the plants by eating the growing points.

LEMMAS ALMOST GLABROUS

(1)

87-021 Festuca trachyphylla 525872

Inflorescence with one spikelet vegetatively proliferating
lemmas almost glabrous. Anther 2.7mm

87-022 Agropyron repens (1) 873

A weed in grass trials.

87023 Phleum pratense (2) 874

Variation within a clump of Phleum that has been subjected to annual fall burning to deter field mice from over wintering in the hay and killing the plants by eating the growing shoots

Samples from opposites sides of the clump

87-024 Festuca rubra (1) 875
Densely tufted cultivar.

87025 Agropyron 'cristatum' (2) 876

Weed among rows of cultivated grasses. At anthesis 3.30pm

87026 Hordeum jubatum (1)
877

Common as a weed among grass trials

878

87027 Poa pratensis (1)
Weed in grass trials, but possibly previously grown under test conditions (ie clumps still in rows)

87028 Bromus tectorum (1)
879

growing as a weed in trials

July 2nd. Numbered experimental plot records

Festuca trachyphylla
880

87029 Weijer No. 83095 (2)
Difference in culm height thought to reflect culms produced before and after freak SNOW storm 19 May 1987 TALL culms produced late. Short culms produced after storm Voucher for seed protein SDS-PAGE GARDINER No. 7145.
Leaves with marginal hairs: Anthers 2.2mm

87030 Festuca trachyphylla Weijer 83099 late (1)
flowering culms chosen: most culms riper than this.

525881

Note proliferating spikelets
Lemmas very hairy: anthers 2·2mm
GARDINER No. 741.
VOUCHER FOR SEED PROTEIN STUDY
Festuca trachyphylla Voucher for 2
87031 ≡ Weijer 83093 (1)
525882
Lemmas glabrous: anthers 2·4mm
(Some notes as my 87029)
Voucher for SDS-PAGE GARDINER No. 743
Festuca trachyphylla: voucher for
87032 ≡ Weijer
83092 (1)
883
Voucher for SDS-PAGE GARDINER No. 739
Lemmas scabrous
Festuca trachyphylla
87033 ≡ Weijer 83091 (1)
Voucher for SDS-PAGE GARDINER No. 737
Culms reddish; Inflorescences at different stages of development
Lemma margins scabrous-hairy
anther: 2·2mm
884
Festuca trachyphylla voucher for (2)
87034 ≡ Weijer 83094
885
SEED PROTEINS NOT ANALYSED
Lemma margins long hairy. anthers 2·2mm
Festuca trachyphylla voucher for (1)
87035 ≡ 83088
Short leaf selection
886
SEED PROTEINS NOT ANALYSED
Lemma with long marginal hairs: Anthers 2·2mm
WEIJER
87036 ≡ 83083 Festuca saximontana (1)
887
Perhaps showing recessive for short in a row of much taller plants - Weijer claims these may be F. brachyphylla from hybrid

Voucher for SDS-PAGE | GARDINER No. 787
Anther 1·2mm

87037 Festuca trachyphylla (2)
87037 [= WEITER 53088 525888
Tall plants adjacent to 87035
Late flowering for the row.
SEED PROTEINS NOT ANALYSED
Lemmas glabrous; anthers 2·2 MM.

87038. 5TH July. ALBERTA
Salix planifolia beside Clearwater
and BIG HORN HWY = FORESTRY TRUNK
ROAD. Shrubby area beside river flats
+ M.D FAIRBARNS identified by G Argus
but not kept.

889
87039 (2)
Festuca hallii
~~5th~~ 1·8 km South of ELK CAMP
GROUND ON BIG HORN HWY, Formally
Forestry Trunk Road Rocky
Foothills west of Mountain House
Open grassland of river flats,
(Collected seed sample, but seeds probably immature.) Seven only
52°N 116°30'W
5th July ALBERTA: Foothills west of
Rocky Mountain House
Pinus contorta forest [M.D. Fairbarns
study site]

52° 25'N 116° 30'W

87040
Trisetum spicatum (1)
as above. 525890
Occasional delicate plants in openings beside road.

87041 Cornus canadensis (1)
Abundant in moss under pines 891

87042A Maianthemum canadense (1)
~~Desf. var. interius Fern.~~ 892
Growing with Cornus canadensis and abundant in moss under pines
I.D.A. Dugal

893
87042B Pyrola prolense (1)
Growing in run off ditch in wettest site. Much larger plants in grass mix seeded beside road

87043 Calamagrostis Canadensis (2)
Very common at edge of woods Sometimes forming dense patches. 894

87044 Pyrola asarifolia (1)
Growing in moss beside openings in the pines common 895
I.D.A. Dugal

87045 Orthila secunda (1) 5
Growing under pines. Less common than 87044 525896

I.D. A. Dugal.

87046 Pyrola chlorantha (1)
Fruiting specimens on drier or slightly higher sites in woods 897

I.D. A. Dugal.

87047 Trisetum spicatum (1)
In roadside ditch beside woods 898
Compare with collection 87040 some day nearby plants.

87048 Festuca rubra (1)
Abundant. Planted with some timothy beside mountain road. Stabilizing road side edges, sometimes as a mono culture. 899

Leymus =
87049 (Elymus) innovatus (2) 900
Only grass seen growing under Pines contorta inside woods In Flower beside road rather than in the shade.

87050 Deschampsia cespitosa (1) 901
Very common beside road in more open areas.

525902

87051 Agrostis scabra (1)
Possibly an accidental in roadside planting
Rare at this site.

87052 Linnaea borealis L (1)
903
Twin flower.
Common in moss with Pyrola asarifolia
I.D. A. Dugal.

87053 Lycopodium annotinum (1)
904
In shade on forest floor.
I.D. A. Dugal.

87054 Glyceria striata (1)
At edge of small seepage pond
905

87055 Elymus lanceolatus ssp. lanceolatus (1)
906
possibly X E. lanceolatus ssp. albicans
At edge of road. Rare. The hybrid was grown and studied in a plot nearby.

87056 Heracleum lanatum (1)
907
Growing in moist run off area back from the road. Plants 1½m high (1)
I.D. N. Dugal

525908

Solidago Multiradiata 6

87057 Yellow composite (1)

Roadside. Only one location seen

I.D. A. Dugal.

87058 Solidago spathulata (1) 909

ssp. spathulata

Among grasses at edge of road

I.D. A. Dugal

87059 Erigeron peregrinus (1) 910

Only seen in one site A Moister more open area at edge of trees

I.D. A. Dugal.

87060 Epilobium angustifolium (1) 911

In open areas at edge of woods

I.D. A. Dugal

87061 Mertensia paniculata (1) 912

as 87059

I.D. A. Dugal.

87062 Alopecurus pratensis (1) 913

Only clump like this in road side ditch

87063 Castilleja miniata (2)
Scarlet paint brush 525914
At edge of forest beside road
Several different colours from yellow to red. I.D. A. Dugal.

87064
(Yellow form of 87063?)
Same as 87063

8TH July Cillersley Farm ca 87005
Festuca trachyphylla
87065 Vegetatively proliferating (1) 915
Voucher for living
Specimen from same clump
Lemmas glabrous anther 2.5mm

87066. Festuca saximontana (1) 916
Growing in hard packed gravel area of parking lot at farm
Lemma scaberulous towards apex. Anther 1.6mm

57067 Puccinellia distans (1) 917
Growing in hard packed gravel of parking lot.

87068 Festuca trachyphylla (1) 918
Stunted plants growing as a weed in parking area. Lemmas glabrous Anthers ca. 2 mm.

87069 Poa annua. (1) 525919
A weed in Festuca rubra grassy roadway.

87070 Bromus inermis (1)
Uncommon on farm. Common along road from Edmonton to Red Deer

87071 Festuca rubra. Cultivar (1)
with culms shorter than leaves. Growing in abandoned experimental field 921

87072 Cirsium arvense (L.) (1)
Common in abandoned experimental 922
field
I.D. A. Dugal

87073 Festuca rubra (1) 3
vegetatively proliferating. Small 923
clump in abandoned field.
Festuca rubra and F. trachyphylla
plants adjacent.
Sheaths with F. ruba-like hairs: Anther 3.0 MM

87074 Poa pratensis (1) 4
Only clump seen at ELLERSLIE 923
~~although species was grown on Ho farm experimentally by Dave Walker for his 1979, University of ALBERTA Ph.D thesis on the ecology of mature grove.~~

87-075 Festuca trachyphylla (1)
Only possible candidate for Festuca saximontana seen in abandoned experimental field. Lemmas with marginal hairs; anthers 2·2mm. Plants burnt in fall to deter field mice 925925

87-076 Festuca rubra (1)
Cultivar in abandoned field similar to one planted beside forestry road in foothills ie sold and widespread near Edmonton. 926

925
87077 Festuca trachyphylla (1) 7
Culms of two height. Tall culms red when fresh; leaves glaucous
Lemmas very hairy; Anther 2·5mm.

87078 Festuca rubra (1)
Rhizomes of F rubra; inflorescence more like F. trachyphylla. Both species growing side by side in abandoned experimental field. Spikelet shape of F. rubra; anther 2·2mm 928

87079 Festuca rubra (1)
Cultivar with unusually compact inflorescences. Growing in abandoned experimental field 929

525930 (1) 8

87080 Festuca rubra s.l. cultivar
Plant with tiny inflorescence such as found in F. rubra plants growing beside the sea in Newfoundland.

87081 Poa pratensis – Not kept!
Isolated plant in abandoned experimental field.

87082 Poa compressa (1)
Limited numbers of plants in abandoned 931
experimental field. Base of plant shows response of this species to burning

87083 Festuca trachyphylla (1)
plant 932
Relatively delicate for F. trachyphylla
In abandoned experimental garden
lemmas glabrous or with sparse marginal hairs
anther 2.1 mm.

87084 Festuca trachyphylla (2)
Culms of two height forms in plants with relatively delicate leaves:
lemmas with marginal cilia: anther 2.4 mm

525934
3

87-085 Festuca rubra s.l. (1)
Vigorous cultivar with branching culms. Common in abandoned experimental field. 525934

87086 Festuca rubra s.l. (1)
Cultivar with more compact inflorescence. Common in field. 935

87087 Festuca trachyphylla (1)
Small delicate inflorescences
Conspicuously smaller than most plants in abandoned field. 525936
Lemmas glabrous; anther 2·2mm

87088 Poa glauca?
Weijers 85049 ID request

→

24TH ALG. TUKTOYAKTUK N.W.T.
69° 30' N 133° W
Full length plants of Corallagrostis arundinacea + Deyeuxia nutkana for display purposes.
Collection S.G. Aiken K.I. McLachlan

87089 Carex bigelowii

Within 500m of P.C.S.P. base growing in gravel near the beach. Sandy substrate in a gravel mound - higher than surrounding substrates Forming tussock clumps for use ✓

87089a Leymus mollis 530790 (1)
as above

87090 Puccinellia phryganodes (1)
as 87089
growing on gravel beach in soil. 530791
Flowering material developed on raised slightly drier areas. Previous seasons stolons still attached

87091
Puccinellia agrostidea ~~530792~~ (2)
as 87089.
Growing on a sandy hummock in the salt spray zone. Forming occasional dense clumps with Puccinellia phryganoides anther 1.1mm 530792

87092 Arctophila fulva (1)
as 87089 Growing with 530793
Puccinellia phryganodes and P. (87091) in saline meadow by shore

87093 Puccinellia andersonii (1)
anther 0.6 mm
Growing near 87091, but an isolated plant in a lower lying heavy soil
leaves blue green to reddish 530794

87094 530795 (1)
Calamagrostis deschampsoides
dominant plant forming saline meadow adjacent to airport runway
S

87095
Dupontia fisheri ssp. (1)
530796
Growing in a continuous saline meadow with 87094, Calamagrostis deschampsoides

87096 Puccinellia andersonii (1)
Growing in the centre of a Dupontia dominated saline meadow 530797
Isolated plant. Anther 0.5 mm

87097 Arctagrostis (1)
arundinacea 530798
Disturbed ground 20 m from

seashore, ca 3m above sealevel. Transition zone with sparse Leymus mollis and willows; (one willow more than 2m tall) Growing in heavy black soil Adjacent clumps at very different stages of maturity Mature inflorescense with nematode infection

87098 Calamagrostis deschampsioides (1)
Growing among (87097 - Arctagrostis arundinacea) site 87097. 530799

87099 Elymus alaskanum (1)
site 87097
Open sandy soil at edge of gravel. Colonizing an area disturbed by bulldozer. Glumes 530800 very distinctive.

87100 Puccinellia (2)
as 87089 530813
In dense saline meadow area Leaves yellow green c.f. bluer green leaves of 87091 growing nearby. Growing with Arctophila fulva 87092 in sand.

YUKON: RICHARDSON MOUNTAINS
25 AUG. 1987 SGA + KIM.

Site 1. Ridgetop west side of West Caicha Creek valley ELEVATION 3350 ft 68°13'N 136°35'W
[Habitat: Boulders 15-40 cm diameter with General information) Sparse arctic tundra Hierochloe alpina the dominant grass

Site 2 Valley west side of West Caicha Creek, below flat topped ridge, 4000' with yellow cliffs.
Stream through very black soil.
valley
68° 15'N 136° 36'W

Site 3. Skull range 68°35'N 137°20'W
Elevation 1400'
River Valley with dense willow birch thicket near stream

Habitat 3A. Grass covered sides of valley, turfy rocky slope

3B Shingle bar in stream.

Site 4. Yukon, Mackenzie Bay
Shingle Point. Dew Line Site
Carex meadow below airstrip. 68° 58' N
137° 15' W

87101 Aconitum delphinifolium (1)
Site 3B. 530801

87102 Salix herbacea
Site 3A

87103 Rubus Chamaemorus (1)
Cloudberry: Bakeapple
Site 3. Growing in sphagnum moss
under willow birch shrubs. 530802

87104 Myosotis alpestris (1)
ssp. asiatica. 530803
Site 3B

530804
87105 Delphinium glaucum (1)
Note leaf-blade-like base to anthers

Site 3B

87106 Ranunculus turneri (1)
Site 2 530805
Growing in wet moss by stream.

[Looking Cody April 1988] W.J Cody

87107 Calamagrostis canadensis (1)
canadensis; adults + seedling plant 530806
site 2 Forming a dominant
meadow beside the stream. Small

87107a Arctagrostis latifolia mixed with (1)
87107 Calamagrostis canadensis 530807

87108 Festuca (3)
site 2 2n = 14 (29 Oct 1987)
Isolated plants on disturbed, unstable
gravel slope. Black soil
Conspicuously glaucous, with older
leaves turning red. Most plants
had shed seed 530941
with occasional plants of Dryas

87109 Festuca altaica (1)
Voucher for seed sample
site 3
Dominant grass in zone above 530808
willow birch thicket; occasional
on ridge 100 ft higher up.
Absent in zone in between.

87110 Trisetum spicatum (1)
site 3A 530809

87111 Poa leptocoma (1)
site 3A. 530810
Spikelets purple drooping on panicle.

87112 Poa leptocoma (2) site 3A
albino form present in clump with
some spikelets purple 530811

87113 Poa sp. (porsildii)

large spikelets site 3a
not obviously webbed

87114 Saxafraga punctata (1)
site 3A 530812

87115
Saxafraga rivularis 530814 (1)
site 3A wet mossy areas of slope

87116 Artemesia norvegica (1)
site 3A 530815

87117 Potentilla ledebouriana (1)
site 3A 530816

87118 Carex bigelowii ✓✓
site 3A
per Lisa

87119 Luzula wahlenbergii (1)
Site 3A 530817

87120 Carex aquatilis (2)
site 3A 530818

87121 Alnus crispa ssp. sinuata (1)
530982
site K Isolated plants

87122 Calamagrostis stricta ssp. inexpansa (1)
site I Dry hummock among boulders with Arctostaphylos alpina Cassiope tetragona + Ledum decumbens 530819

87123 Carex bigelowii
Dry hummocks among boulders
site I

87124 Ledum decumbens (1)
Dry hummocks among boulders with Arctostaphylos alpina and Cassiope tetragona. Note terminal winter buds 530820

87125 Hierodlae alpina (1)
on dry hummocks. Diminutive plants from driest sites. Abundant grass
530821

87126 Luzula nivalis
Site 1

87127 Festuca = brachyphylla (1)
Site 1 2n = ca 42 29 Oct 1987
Habitat Bare moist gravel hollow in patterned with moss Dryas, lupin, willow 530822 Hierochloe & Carex on ridges.

~~87128 Oxytropis~~ ? not kept
No reproductive parts
Site 1

87129 530979
Douglasia arctica Site 1 (1)
leaves turning red in fall W.J. Cody
Site 1

87130 Minuartia yukonensis 530823 (1)
Site 1

87131 Minuartia arctica 530824 (1)
Site 1

87132 Carex consimilis
Site 1 B Ford 531021

87133 Spiraea beauverdiana (1)
530825

87134 Saussurea angustifolia
[coded Cody]

26 Aug

N.W.T. TUKTOYAKTUK TOWNSHIP AREA

87135 Hippuris vulgaris In water 25-50 cm deep in shallow pool near P.C.S.P. base (1) 530826

87136 Arctophila fulva (1) Growing from moist shoreline to water 50 cm deep in shallow pool near P.C.S.P. BASE 530827 Voucher for seed collection

87137 Leymus mollis Voucher for seed collection Common sand binder

87138 Dupontia fisheri (2) ~~Voucher for seed collection~~ Moist bank slightly drier site than Arctophila. 530828

87139 Arctagrostis arundinacea (1) Common on sandy rises around P.C.S.P. BASE. 530980 Voucher for seed sample

87140 Elymus alaskanum (1)
ISOLATED CLUMP on sandy ridge near P.C.S.P. BASE. 530829

87141 (3)
Puccinellia sp. 530830
Voucher for seed samples (i) collected for J. Davis 50 packets, each containing the seed from a single plant (ii) Bulk sample.
Abundant on sandy areas around the P.C.S.P. BASE AND ALONG THE ROADS. Anther 0·8 mm.

87142 Senecio congestus (1)
In moist ground near lake. 530831

87143 Festuca brachyphylla (1)
In bare spots on small hill covered with willow birch tundra. 530832
Between P.C.S.P. base and town.

27th AUG. YUKON. site 1
SHINGLE POINT DEWLINE SITE
68°58'N 137°15'W

site 2. YUKON
BLACK FOX CREEK, ca 5Mi WEST
OF SAM LAKE at approx. 1400 ft
68°23'N 138°49'W Willows 2-2.5M
high on gravel bar.

site 3 YUKON: SLEEPY MOUNTAIN.
NORTH FACING SLOPE ca 700M
68°43'N 138°17'W

site 4 YUKON: ALONG BARRAGE
RIVER 68°57'N 138°32'W. GRAVEL
BAR IN RIVER, ON GRAVEL BAR.

8711/4 Festuca richardsonii site 4
Common on gravel bar. IN seed. (1)
Voucher for seed sample 530833
2 samples to show diversity of form
at the site

8714 5. Festuca richardsonii site 4 (1)
Isolated plant from tundra adjacent
to gravel bar. Plant growing on slight
530834

ridge in the tundra with, moss, lupin + Arctostaphlos. Leaves very pubescent; appearing grey when collected.

87146 Calamagrostis stricta

site 4. Common on drier sites on gravel bar; sites with no trees and some accumulation of soil.

87147 Bromus pumpellianus.
site 4 Common on gravel bar.
Voucher for seed sample

87148 Poa williamsii (1) 530835

site 3 Bare ground with clumps of very green grass on fine black soil
Anthers 1·2mm Fruit forming

87149 Poa 'leptocoma' (1)
(as 87148 530836

87150 Poa glauca (1)
site 3 as 87148. bluish green
Very wide leaves. Plant growing in close association with lupin. 530837

87151 Deschampsia cespitosa ssp. (2)
brevifolia
Site 3 as 87148. leaves yellow green
530838

87152 Festuca brachyphylla 531022
site 3
Bare ground on top of ridge
with other grasses. anther in developing
inflorescence 2-3mm. Very little sclerenchyma in
leaf cross section
87153 Festuca brevissima
growing with (87152 Festuca brachyphylla) 531023
little leaf blade sclerenchyma; S well defined
87154 Lycopodium selago (1)
site 3. Hummock x hollow tundra on side
of hummock. 530839

87155 Carex (for Bruce)
site 3 Hummock x hollow heath and
willow tundra

87156 Poa glauca. (1)
site 3 as 87148 530840

87157 Arctagrostis latifolia (1)
site 1 530981
In hummock x hollow willow birch, Labrador
tea tundra beside runway

87158 Festuca brachyphylla
Tall plants growing at interface 531024
between shingle x sand of runway and
arctic tundra. Relatively moist site

brevissima

87159 Festuca brachyphylla site 1
Short plants growing in sand of gravel disturbed area beside runway

87160 Poa glauca tall plants (1)
Abundant in gravel at edge of runway. Voucher for seed sample
Short plants also. Anther 1-6 mm 530841
ligule to 1.5
87160A Rubus chamaemorus a of 87160 530842 (1)
87162
Festuca richardsonii. Almost (1)
glabrous lemmas Yukon Anther ca 2 mm
[Site 5] Canoe Lake on Canoe River
68°38'N 138°49'W Large gravel
Island in river, Soil accumulated among gravel.
4 samples from within 40 m with very
different lemma type. 530843

87161 Carex Membranacea [for Bruce] ✓✓
Canoe Lake, site 5.
Growing in snow patch on 45°
hillside with Salix reticulata, some
dicots and occasional Arctagrostis
latifolia

87163 Poa alpina site (5) (1)
ON HILLSIDE. beside gravel bar. 530844
PLANT DIED,

~~87164 Carex scirpoidea~~
~~Site 5 Hillside beside gravel bar~~
~~Poor male only specimen - discarded.~~

87165 Festuca altaica
(1) site 5 530845
Hillside approx 10m above gravel bar forming a zone about 5m wide. Voucher for seed protein

(1) 87166 Bromus pumpellianus
Site 2. Common on gravel bar
Voucher for seed sample. 530846

87167. Festuca richardsonii
(1) Site 2
Voucher for seed sample 530847

87168 Festuca altaica
(1) site 2. Common In tundra adjacent to gravel bar; sparse on gravel bar adjacent to tundra 530848
Voucher for seed sample

(2) 87169 Calamagrostis canadensis 530849
Site 2 On gravel bar beside river.
var. langsdorfii

(1) 87170 Elymus alaskanus 530850
Site 2

87 171 Orthilla secunda (1) 17
(1) site 2 530851
On gravel bar under willows
W J Cody

87 172 Stellaria crassifolia
(1) Montia (Portulaca) 530852
site 4 Beside river in the mud
W J Cody

87 173 Hedysarum mackenzie 530853
(1) site 4 W.J Cody
Growing in open areas of soil accumulation on gravel bar

87 174 Parnassia palustris var 530854
(1) site 4 neogaea
K5 C5 WHITE A 5 Fascicles G(3)
W J Cody

87 175 Pedicularis verticillata
(1) artica site 4 site 4 530855
↑ Flowers purple pink (no obvious teeth)
530942
W J Cody

87 176 Aster sibiricus
(1) site 4 Zone W J Cody
Between gravel bar and tundra 530856

87 177 Equisetum scirpoides (1)
site 4
Common on soil built up areas in the gravel bar 530857

530858

87178 Erysimum inconspicuum
(1) flowers bright yellow W J Cody
Site 4

87179 Erysimum inconspicuum
(1) shingle point in Site 1 530859
In gravel of runway W J Cody

87180 Petasites frigidus
(1) Site 3: Heath and willow frost boil tundra
Note Winter buds W J Cody 530860

87181 Saxifraga tricuspidata
(1) Site 3: Heath willow frost boil 530861

87182 Salix? + Vaccinium
Site 3 Rhododendron? vitis-idaea
(Not kept)

87183 Rhodiola integrifolia 530862
(1) Site 3
Willow and heath tundra W J Cody

(1) 87184 site 5 Parnassia palustris
var. 530863
K5 C5 A5 fascles G(3) neogaea
W J Cody

87185 Willdenowia phycodes 530864
(1) (site 5)
Muddy stones of gravel bar W J Cody

87186 Aster sibiricus 530865
(1) site 5 Interface between tundra and gravel bar. W.J Cody

87187 Senecio lugens 530866
(1) site 5 W.J Cody

87188 Equisetum scirpoides 530867 (1)
site 4 Most open area of gravel bar.

87189 Oxytropis viscida 530868
(1) site 4. Gravel bar interface with tundra W.J Cody

87190 Artemisia alaskana (1)
site 4 Beside river on gravel bar at interface with tundra W.J Cody 530869

87191 Castilleja caudata
(1) site 4 ( ) 530870
Beside river on gravel bar at interface with tundra W.J Cody

87192 Achillea lanulosa 530871
(1) site 4 Common at the interface between gravel bar & tundra. W.J Cody

87193 Descurainia sophioides
(1) (mustard) 530872
Site 1 on gravel at Arfort W.J.C

87194 Artemisia tilesii 530873
(1) site 3. large isolated plants on very disturbed crumbling black gravel slope.
WJC

87195 Arnica lessingii 530874
(1) site 3. In willow heath tundra
WJC

87196 Potentilla hyperarctica 530875
(1) site 3 willow heath tundra
WJC

87197 Hedysarum Mackenzie
(1) site 5 530876 WJC

87198 Delphinium glaucum
(1) site 5. 530877
On sloping hillside beside gravel bar.

87199 Zygadenus elegans (1)
site 5 530986
On hillside rising above gravel bar.
WJ Cody

29TH Aug.
N.W.T. TUKTOYAKTUK
69°30'N 133°W
ROAD BETWEEN TOWN SITE DUMP
AND SEWAGE LAGOON. Site 6.

87200 Dupontia fisheri. 10 Reps (1)
opposite Beaudrill Headquarters
low lying damp ground. Dominant
plant forming meadow. Narrow
inflorescence form from wetter site
Occasional plants of Puccinellia
borealis
[Bulk collection for taxonomic study]
Great build up of litter on ring
heats
530878

87201 Poa arctica. 530879 (1) Some
plants with vegetatively proliferating inflorescence
Yukon: Komakuk.

Dew-line site: Gravel tundra interface
South facing C.M. Pearce: Geography
Dept. U. of Western Ont. N6A 5C2.
87202 Festuca baffinensis. (1)
as 87201: North Facing slope of
gravel helicopter landing and tundra.
530880

87203 Poa arctica 530881 (1)
as 87201 Single plants
in gravel of helicopter landing

87204 Calamagrostis lapponica 530882 (1)

Yukon Shingle Point 68°58'N 137°15'W
Helicopter Pad: at edge of gravel
in shallow water

87205. Salix
Collections of whole trees for
Gary Wallace.
site 6.

87206 Potentilla egedii (1)
site 6 530960
Sandy shore beside Mackenzie
Bay. WJ Cody

87207 Stellaria humifusa (1)
site 6 as 87206 530961
In shallow water near Dupontia
meadow. WJ Cody

87208 Elymus ~~violaceum~~ (1)
Sandy Hill 530883
Sparse plants on sand
Voucher for seed sample

10 reps. 20

87209 Dupontia fisheri (1)
Bay beside Mackenzie Bay 530884
East side of bay with build up of drift wood: West side with Dupontia meadow. Very little litter among roots. Bulk collection of inflorescences.

(1)
87210. Calamagrostis ssp stricta var. borealis
as 87209. Site 6
between tundra and Dupontia meadow 530885

10 reps (10)
87211 Dupontia fisheri. N.W.T.
Tuktoyaktuk P.C.S.P. 530886
Beach below P.C.S.P. Base Camp.
Dupontia fisheri meadow heavily wave washed by storm waves previous day. Meadow under water.

87212 Festuca L. (1)
Tuk DUMP. Interface between disturbed gravel and tundra. 530887

87213 Stellaria humifusa (1)
with 87207. WJ Cody
530962

30th Aug.
Collect C. H. PEARCE

N.W.T. TUK PENINSULA
"Roger's Pingo" 69°37'N 130°58'W
All slopes and top disturbed ~~sites on~~ collapsed pingo, ice lens 30 cm of surface

87214. Festuca brevissima 530888
Roger's Pingo Tuk Peninsula
69°37'N / 130°58'W — disturbed upper N-facing slope of collapsed pingo — rare on pingo — dry mineral soil (sandy) over ice (w/Poa, Arctagrostis, Elymus, Artemisia, Senecio, Salix spp)
Aug 30/87

87215 Poa arctica all over Roger's pingo — in wet spots (ice melt ponds on disturbed surface) - common
530889

87216 Arctagrostis arundinacea in wet depressions and ponds on Roger's pingo. Common
530890

87216a Stellaria longipegs (as 87216) alaskana
UJ Gody 530963

87217 Elymus — on disturbed sites on Roger's pingo - scattered
530891

87-217a - Draba? ~~530964~~

87218 Cerastium beeringianum (1)
Roger's pingo 530965
Disturbed sites w/ willow and
Elymus — scarce W.J Cody

87219 Poa arctica 530892
Roger's pingo
Disturbed sites

87216a Stellaria
Roger's pingo
Disturbed sites — very common

87217a Draba glabella (1)
Roger's pingo 530964
Disturbed site - scattered GA Mulligan

87220 Castilleja caudata
Roger's pingo
well vegetated E slope of (1)
pingo - lower elevation w/ Salix
(moist) 530966
W J Cody

87221 N.W.T. TUK. TOWNSHIP

Hordeum jubatum 530893
Disturbed ground near baseball diamond.

87222 Festuca rubra L. s.l.
Strong creeping red fescue 530894
Presumably planted in baseball diamond area (as 87221)

530895
87223 Calamagrostis deschampsiodes
Forming dense meadow in wetland beside base ball diamond
Voucher for seed sample.

87224 ? Calamagrostis stricta, var. borealis
3m in diameter 530896
Forming a mat dominated by this species and surrounded by 87223 on slightly higher ground.

87225 Arctophila fulva 530897
N.W.T. TUK. Whitefish Summit beside Kugmallit Bay
69°22'N 133°28'W
Coll. Ray Bolton

Dried lake bottom behind eroded pingo. Very wet sites

31st Aug. Yukon BLOW River flats behind wet delta area 69° 53' N 137° 5' W

87226 Carex aquatilis var stans ✓✓ large wet meadow with willow and alder on higher ground

87227 Artemesia Tilesii ① 530967 On snowy slope at junction between river flats and hillside. WJ Cody

① 87228 Poa paucispicula 530898 as 87227

① 87229 Trisetum spicatum 530899 Growing with 87228 as 87227

87230 Polygonum Bistorta ssp. plumosum ① WJ 530968 Cody as 87227

① 87231 Lycopodium selago 530900 as 87227

87246
(1) Potentilla palustris 530910
N.W.T. Richards Island
East of Denis Lake
Forming a fringe on one side of small pond. Growing beyond Arctophila zone. Withered seen from air. Not common on Delta.
69°22'N 134°40'W

87247 Poa 530911
(1) Lenina with well developed web.
as 87239

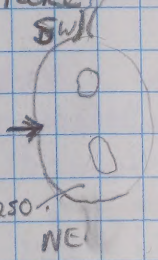
87248 Poa arctica 530912
(1) as 87239

87249 Luzula as 87239
(1) arctica 530913
as 87239

87250 Illisarvik N.W.T. ✓✓
69°29'N 134° 37'W.
Drained thermocast lake, Experimental Lake.

Draba glabrella
Common on dried eroding surface

of former lake. More common towards the northern end of the lake.



87251 Juncus arcticus 530914
towards margin of previous lake bed (1)

Descurainea sophioides (1)
towards the
87252a center of previous lake bed 530973
W.J. Cody

87253 Koenigia islandica 530915
In moist mud of previous lake bed

87254 Cochlearia officinalis ssp groenlandica
In moist area of outlet stream that drained the lake.
Not kept.

87255 Senecio yukonensis (1)
towards S.W. end of lake on mud flats. Mud hugger plants of 530974
Senecio congesta present in area.
W.J. Cody

(1)

87256. Puccinellia borealis 530916
Extremely abundant around lake
Margin especially towards outlet end
Anthers 0.7mm

87257 Festuca auriculata 530917
(2) 2 isolated clumps seen: 1 on the east
side of the lake; the other in the
outlet stream bed
Anther 3.5mm

87258 Eriophorum scheuchzeri
Limited patches on dried lake bed
Sample from towards the S.E side
of former lake bed
(Not kept)

87259 Elymus alaskanum 530918
(1) Coming in on driest eroding sites
Not yet common

87260 Deschampsia cespitosa 530919
(1) One huge clump 20-30 cm in
diameter towards the centre of the
lake bed. Only clump seen, but
in the wind the inflorescences
looked very like Puccinellia borealis

87261. Poa arctica 530920
(1) Very occasional on dry, eroding lake bottom

87262. Willow for Gary Wallace
Uprooted stem Area of outlet Stream.

87263 Juncus articus ! (1)
~~Coll. Cheryl M Pearce~~

87264 Caltha palustris (1)
Coll. C.M. Pearce W.T. Cody
ask for IGNORE THIS Barbara 530975

Arctagrostis arundinacea
87265. N.W.T. Pelly Island
(1) 69° 34' N 135° 34' W 530921
Ray Bolton Collector. with Fred Michel
Beach beside Pingo
Arctagrostis latifolia

87266 Puccinellia borealis 530922
(1) as 87265

87267 Deschampsia cespitosa
(1) as 87265 530923

2nd Sqft. N.W.T. INUVIK.
View from hill behind dump
Area burnt about 1985
Grasses all sparse, limited:
Poa glauca, Hordeum jubatum
Calamagrostis canadensis
Poa pratensis
mixed willows / some birch /
roses, a rubus Fireweed
Lupin
Achillea Equisetum

INUVIK. 68° 25'N 133° 45'W
WOOD SAMPLES FOR GARY WALLACE

87268 Salix
from hill behind INUVIK
Sampled for Gary Wallace

87269 Alder tree 42" Tall
Alnus crispa

87270 Betula papyrifera
var. neoalaskana

87271 Salix sp.

87272 Betula glandulosa

87273 Rosa acicularis Lindl.

87274 Ledum decumbens.

87275 Potentilla fruticosa
Flowering stem beside fence in townsite of INUVIK.

87276 Pyrola grandiflora *
INUVIK. 68°25'N 133°45'W.
Spruce boreal forest burnt 9 years previously. // Growing on ridges of moss, Equisetum, Cranberry, in shelter of alder. 530943
No lichen E. HARBER

87277 Orthilla secunda *. (to 87276 to //) Growing on open ground with moss. No Cranberry E. HARBER 530946

87278 Orthilla secunda 530944
Growing about 2m from 87276 and 87274 Dry ridge with Equisetum Disturbed ground beside path.
(over)

little moss and no lichen

87279 Hordeum jubatum 530924
Dominant grass in township of Inuvik. Most heads disintegrating, but occasionally a late blooming inflorescence

87280 Puccinellia borealis 530925
Occasional in township. and on disturbed ground near dump
Anther 0.7mm

87281 Rubus pubescens Raf.
(Wood sample

87281a Beckmania Syzigachne
Common around small ponds in disturbed area near dump 530926
Voucher for seed sample

87282 Hippuris vulgaris
Growing in shallow area of small ponds near dump 530927

87283 Sparganium hyperboreum 530928
as 87282

87284 Juncus bufonius (1) 530929
(as 87281)

87285 Stellaria crassifolia (1)
as 87281 W.J Cody 530984

87286 Coniosetinum cnidiifolium
Polygonum aviculare (1)
Burnt area behind INUVIK 530985
GOLF COARSE AREA A few plants
half Way up hill W.J Cody

87287 Polygonum aviculare L.
531036
Common is disturbed sites
along roadsides W.J Cody
530930

87288 Calamagrostis stricta (1)

In narrow valley beside gravel
pit near dump

87289 Arctagrostis latifolia (1)
as 87286 530931

87290 Carex aquatilis as
87281a.

87292 Pedicularis frigidus (1)
Common on burnt hillside behind Inuvik dump 530932 WJC.

87293 N.W.T. Parson's Lake (1)
Small Island in lake North of Dog's Head Point, east of Thumb Point 68°59'N 133°40'W
Acidic overburden, disturbed dry silt gravel underlain with clay
Area reseeded when oil well was abandoned
Collector Ray Bolton
1st Sept.
530933
87293 = Calamagrostis canadensis

87294 Lycopodium annotinum (1)
as 87238. 530934

530935
87295 Arctagrostis latifolia (1)
as 87293

87295a. as above Calamagrostis lapponica

87296 Puccinellia distans (1)
Alberta Nisku beside road near railway [20 miles north of Edmonton
530936
Anther 0.7mm

530937
87297 Phalaris arundinacea (1) 28

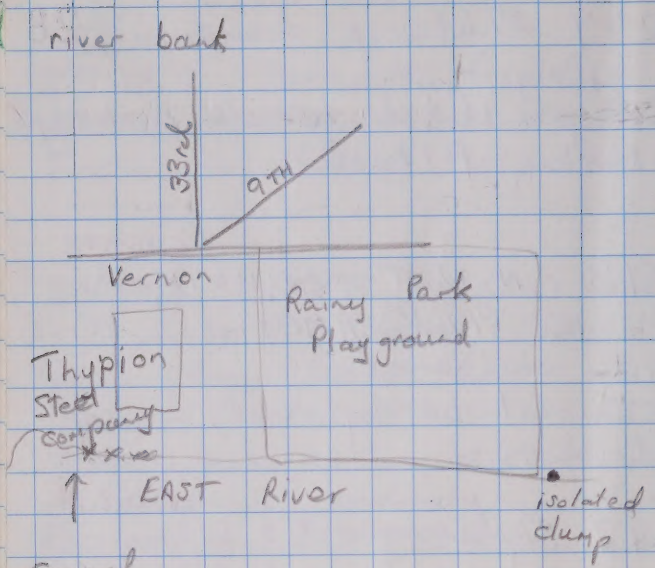
Growing in ditch beside railway at Niskay, Alberta

530938
87298 N.W.T. INUVIK (1)
CHUCK PARK AREA
Elymus alaskanum.
Occasional on exposed, sandy roadsides

530939
87299. Calamagrostis lapponica (1)
occasional in mixed tiage forest of Chuck Park

87300 Arctagrostis latifolia (1)
Beside road into Chuck Park
Moister ditch area. 530940

87301 Calamagrostis epigejos
N.Y. LONG ISLAND, QUEENS,
Beside East River adjacent to Rainy Park Playground behind warehouses of Thypion Steel Company. Most of the river bank dominated by Erigeron canadensis, Calamagrostis epigejos, in patches along eroding



Several
clumps

15 Nov 1987

88-001 Festuca filiformis (3)
Material sent in from Agriculture Canada, Saskatchewan about 1983 as F. ovina "Fertalia" Grown in Ottawa outdoors 1984-1988. collected 13 June 1988 533894
Plants at anthesis 7:20 cm,
anthers 1.6 - 2.0 mm

533895 Festuca ovina L.
88-002 F. ovina Mechlenberger
Material sent in from Agric. Canada, Sask 1983 88 (3)
Anther 2.6 mm Grown outdoors in Ottawa 1984-1988
Collected 13 June 1988. SHEATHS HAIRY NO RHIZOMES

88-003 Festuca filiformis. 533896
as above
sent in as F. ovina Barok
Anthers 1.5 mm

Festuca lenensis as 87-105 (3)
88-004 Plants that had been growing at the Agric. Can. C.E.F. Greenhouse for 10 months after original 533897
collection June 1988
Leaf blades with much less sclerenchyma but still hairy.

88-005 Yukon July 5 1988
[afternoon trip up/down Blow River
Sites 11-13 ~~533898~~
Site 11 Check. 3 sites all eroding
o.g. correct texture No F. brevisetum]

Site 11 Yukon, beside Blow River
68°50'N 137°8'W on high
eastern bank of the river

Site 12 Yukon, Gravel bar in Blow
River 68°47'N 137°13'W

Site 13 Yukon, Abandoned shingle
landing strip in tundra
68°46'N 137°30'W. [Many of the
species present in the shingle of the
Shingle Point Air strip - but NO Festuca !]

✓88-005 Arctagrostis arundinacea (1)
Site 11 533898
Growing in dense dry tundra
at top of ridge with birch and
Ericaceae.
Distinctly pinkish when fresh

88-006 Achillea 533899
Site 11 in tundra at top of
ridge with Arctagrostis

88-007 Carex [bigelowii] ? 533900
Site 11
Dry well drained tundra at top of
ridge

✓88-008 Arctagrostis arundinacea (1)
Site 11 901
Distinctly purple when fresh.

✓88-009 902 (2)
Arctagrostis arundinacea site 12
Plants at anthesis at the top of the
panicle. Panicle pinkish when fresh
Plants in wet meadow beside
Eriophorum; growing on hummock
with Labrador tea and
heather

✓88-010 Arctagrostis arundinacea (1)
Site 12 Plants 3m from 533 903
collection 88-008 on a hummock
with birch + labrador tea. A
drier site, possibly losing snow
later if adjacent willows act as snow

Fence. Those plants conspicuously pre-anthesis.

88-011 Pedicularis sudetica 533904
Scrophulariaceae
Site 12
Growing in wettest section of Eriophorum meadow in moss (3 heads)

88-012 Carex aquatilis (2) 905
Site 12
Wet meadow

88-013 906
Eriophorum (3 heads)
Site 12. Growing in wet hummock and hollow meadow. Water 10-15 cm deep in hollows

✓88-014 Dupontia fisheri (1) 533907
Growing in pool of standing water site 12, habitat 88-013

533908

88-015 Eriophorum (single head) - drier sites in wet meadow than 88-013

88-016 Rubus chamaemorus (1)
Bake apple 909
Site 12
Growing on hummock with Moss
Labrador tea, ~~heather~~ & Eriophorum

88-016A Andromeda polifolia 910 (1)
Site 13 Growing in tundra in wet Eriophorum (88-015) meadow
Fresh flowers pale pink

88-017 Ranunculus 533911
Growing in wet run off channel beside runway. Tall plants growing up Eriophorum ~~culm~~ stems Most of the plants in water or damp mud covered with rust film.

5339 12

88-018 Carex aquatilis (2)
Site 13
Invading warmer dry site of shingle on landing strip from adjacent wet tundra.
88-018A Plants from very dry site 5340

88-019 9/3
✓ Site 13 Arctagrostis arundinacea (1)
Pinkish panicle when fresh
Growing in dry shingle of runway

✓ 88-020 Hierochloe alpina (1)
Site 13 9/4
Plants at anthesis late afternoon
After cooler, cloudy morning SUN had come out 2-3 hours earlier

✓ 88-021 Poa glauca (1)
9/5
Site 13
A successfull invader of the shingle of the abandoned runway

88-022 Luzula confusa 533916
site 13
EARLY INVADER OF ABANDONED RUNWAY / Growing on VERY DRY GRAVEL OF RUNWAY

✓ 88-023 Calamagrostis deschampsioides ①
as 88-021 533917

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6 July 1988 British Mountains 69°13'N 139°30'W
Site 14 Yukon: ALT 830M (2500ft)
Cambrian slates, richen clay minerals and aluminum; acidic
Patches in flower on EAST facing slope
at 2500'
Drop off site for landing base
69° 13'N 139° 30'W

Site 15 Yukon, Gravel bar east side
FIRTH River and junction with Honey Creek
ALT, 100M above sea level
69° 20'N 139° 30'W
Much of site under water or cooked by spring run offs

Site 16 Yukon
KOMAKUK Beach, 3m above sea level
69° 37'N 140° 07'W
Narrow stretch of land between the runway and Beaufort Sea. Dominated by grass, probably Poa arctica, but no inflorescences present.

Yukon

Site 17 Mitchell Island: N. Island
69° 37'N 139° 05'W
Willows at anthesis - collect site today
Area of eroding banks near highest point of the centre island

88-023A Pedicularis lanata 533918
Site 14 North facing slope possibly a snow patch.

88-024 Saxifraga nivalis 919
(as 88-023A)

88-025 Anemone 920
(as 88-023A)

88-026 [illegible] fragrant to 921
discuss with Jack Gillett
(as 88-023A)

✓88-027 Phlox sibirica (1)
Site 14 EAST FACING SLOPE 533922
Phlox
flowers pink when fresh.
Very arid flat area
growing with Dryas - [where Helicopter landed]

88-028 Arnica 533923
East facing slopes site 14.

88-029 924
[small vivid purple-blue flowers when fresh]
as 88-028

Caryophyllaceae

88-030 [Stellaria ?] 533925
as 88-028

[88-031 Pyrola grandiflora single plant not kept
Species rather rare in area, but not kept! confirmed E Haber]

88-032 Papaver 533926
Site 14 East facing slope of mound
Only slope with toffies - Labrador tea common Heather + Dryas finished flowering

88-033
✓ Potentilla fruticosa 927 (1)
(as 88-032)

88-034 Pedicularis labradorica (yellow) 533928
as 88-032
flowers yellow

88-035
Artemesia ~~as~~ as 88-032 533929
Bottle of top floret vivid red

✓88-036 Polygonon bistorta (1)
533930
as 88-032 -

✓88-037 Vaccinium vitis-idaea 931 (1)
as 88-032.

✓88-038 Sedum decumbens 932 (1)

88-039 933
[Sedum plant]

88-040 Carex [membranacea] 934
Site 14 Dry exposed outcrop with
bush and dry grass - East facing slope

88-041 [Fern] Dryopteris fragrans 533 935
Tall plants growing in deep shade
of rock crevice. Short plants in
exposed cracks formed by boulder

533936

✓88-042 Crystopteris fragilis 34 (1)
South facing slope in shade of large boulders Site 14

88-043 Delphinium 937
Site 14.

88-044 Bupleurum americum 938
[Purple ceiling]
Site 14

88-045 Potentilla 940
as 88-042

✓88-046 Festuca altaica Site 14 (1) 941
N.E. slope in hollows in a run off slope; growing with Lupin, Heather, Carex Hierochloe alpina. Sparse plants limited to this slope.

✓"forma pallida" Jordal GROWING NEAR F. altaica 88-046 on more exposed site (1)

88-046A 942

88-047 Artemesia 533943
Site 14 East facing slope

88-049 Site 16 533944
Sunny N facing slope
Plants flowering this side of knoll, in seed on South facing slope. Dryas in full flower
✓ Heirochloe alpina (1)
Plants with anthers exposed but sod shedding pollen at 12 noon

✓ 88-050 Cassiope tetragona (1)
as 88-049 945
Abundant on N-facing slope, sheltered and past flowering on South slope

✓ 88-051 Ledum decumbens (1)
946

88-052 Stellaria graminea
Growing in moss 947

✓ 88-053 Vaccinium uliginosum (1)
(Bilberry) 533948

Site 14 East facing slope
Plants dense in moist hollow
Possibly a late snow melt site

East facing slope

88-054 Pedicularis 533949
Fresh flowers pale pink, drawing with age

√88-055 Saxifraga reflexa (1) 950

√88-056 Boykinia richardsonii (1) 533951
large petiolate leaves
white flowers
red anthers

√88-057 Site 15. Algae
Used toothbrush to brush off coating on rocks from back eddy in fast flowing FIRTH RIVER

√88-058 Bromus pumpellianus (1)
Site 15: on "islands" of plants in the gravel bar, formed around willows 533952

√88-059 Calamagrostis purpurascens (1)
(as 88-058) Conspicuously purple 953

√88-060 Potentilla rubricaulis (1)
as 88-058 abundant 533954

✓88-061 Oxytropis vescida (1)
as Flower pink purple when fresh 533955
(88-058)

✓88-062 (legume) Hedysarum mackenzii (1)
Magenta coloured flowers 956
as 88-058

✓88-063 Festuca richardsonii 957 (1)
as 88-058

✓88-064 Androsace chamaejasme. (1)
as 88-058 var. arctica 958

✓88-065 Astragalus alpinus (1)
as 88-058 959

✓88-066 Artemesia tiksii 960 (1)
as 88-058

✓88-067 Polemonium acutiflorum 961 (1)
as 88-058 Tri locular 3 stigmas - decent key to family in P&C.

88-068 Artemesia 533962
Site 15. South facing bank of Loney Creek Loney
Very unstable soil.
This species is one of the first and most successful colonizers

√88-069 Poa glauca 533963 (1)
ao 88-068

√88-070 Festuca baffinensis 964 (1)
Single plant growing through Poa glauca clump.

88-071 Ranunculus 965
Site 15 ON BANK BESIDE RIVER
Lonely AT JUNCTION.
Fifth

88-072 Anemone 966
ao 88-077

√88-073 Oxyria digyna 967 (1)
ao 88-071

√88-074 Festuca brachyphylla ? (1)
ao 88-071 Single plant on eroding 968
slope at this site (15)

88-075 (604C) Asteraceae 969
Site 15 South facing slope of Loney Creek
Bottom of slope among willows

88-076 533970
ao (88-075)

√88-077 Calamagrostis purpurascens (1) 533971
South facing bank beside Loney Creek
Half way up an eroding bank, somewhat
stabilized by grasses
1988 Spikelets pale pink purple when
fresh.

88-078 Elymus alaskanus 972
(as 88-077)

√88-079 Trisetum spicatum 973
(as 88-071)

88-080 Mustard 974
(as 88-071)

88-081 Draba 975

88-082 Erysimum pallasii 976
(as 88-071) Growing as isolated plants
in very unstable soil

√88-083 Mertensia paniculata (1)
(as 88-058) Vivid blue flowers when fresh
977

Site 16
88-084 Puccinellia 533978

Common in tundra beside sea
(Voucher for living plant)

88-085 Cochlearia officinalis 533979
Taller plant growing through grass (Poa arctica) etiolated. site 16

88-086 Arnica 980
site 16

88-087 Artemesia 981
site 16

88-088 Melandrium affine 982
site 16

√88-089 Primula borealis 983 (1)
site 16

88-090 Draba [yellow] 984
site 16

88-091 Draba [white] 985
site 16

√88-092 Arctophila fulva Growing in (1) 986
moist tundra: no standing water site 16

88-093 Puccinellia 987
Site 17 South facing slope
eroding soil near small stream

√88-094 Saxifraga hieracifolia Site 17 (1)
Growing in tundra on south facing slope
533988

88-095 Castilleja caudata 533989
(as 88-094)

✓ 88-096 Phippsia algida 990 (1)
as 88-093. Early colonizer on very disturbed ground

✓ 88-097 Androsace chamaejasme (1)
as 88-094 Growing in moss 991

88-098 Anemone 992
as 88-096

✓ 88-099 Silene acaulis 993 (1)
(as 88-094)

✓ 88-100A Petasites frigidus 994 (1)
88-100 995
(as 88-094) Blue spikes
(KS C3+2 A2)

88-101 Asteraceae 533996
[Lvid orange composite]
as 88-094

88-102 [Senecio] Young Petasites - NOT KEPT
(as 88-094)

✓ 88-103 Oxytropis maydelliana (1)
(as 88-094) 533997

533998 38

88-104 Trisetum spicatum as (88-093) (1)
Tiny plants an indication of difficult environmental conditions

88-105 Alopecurus alpinus 1
site 17. near eroding slopes 533999

88-106 Cruciferae? 534000
[large fleshy Cruciferae]
as 88-105

88-107 Ranunculus 534001
[yellow buttercup]

88-108 Saxifraga nivalis 002
growing in moss on bank

88-109 Oxytropis arctica (1)
deep blue flowers 003
J. G. Ilett

88-110 Pedisitas 004

88-111 Papaver radicatum (1)
534005

534007

✓88-112 Myosotis alpestris (1)

88-113 Algae sample: Yukon
3 Km inland from Shingle Point
Landing Strip.
68° 50' N 137° 16' W

Yukon:
Site 18 White Mts 67° 57' N, 136° 30' W
2500' Silurian Limestone
Dryas, lichen in frost heave cracks
sparse vegetation

✓88-114 Hedysarum mackenzii (1)
occasional
533939

✓88-115 Oxytropis arctica (1)
J. Gillett
534008

88-116 Silene acaulis 534009
Conspicuously large plants on edge of slope

✓88-117 Tofielda coccinea (1)
Growing through Dryas
010

✓88-118 Tofielda pusilla (1)
Sparse plants in gravel
011

✓88-119 Androsace chamaejasme (1)
One fresh flower a vivid pink color var arctica
534012

534013

88-120 Caryophyllaceae 39

Site 19

YUKON: RAPID CREEK: GRAVEL BAR IN CREEK 68°33'N 136°50'W

✓88-121 (1)

Festuca richardsonii 534014

Site 20 YUKON: SHINGE POINT 68°58'N 137°15'W

Eroding shingle cliffs beside the sea

88-122 Ranunculus 015

At base of cliff with Oxyria + grasses, probably Trisetum + Poa but not inflorescences

88-123 Carex 016

About half way up the slope in eroding shingle with willow

88-124 Salix 017

Dominant in places about the middle of the eroding banks

✓88-125 Festuca brachyphylla (1)

Isolated plant at the top of eroding cliffs beside the sea 534018

534019

88-126 Saxifraga reflexa Hook (1)
Very conspicuous white flowers
very common on banks

88-127 Pedicularis Petasites frigidus (1)
Common along banks 020

88-128 Hierochloe alpina 021 (1)
Particularly rhizomatous on eroding
banks

88-129 Cassiope tetragona 022 (1)
Growing with moss on more stable
areas of banks

88-130 Luzula: 023
Isolated plants on eroding banks

88-131 Asteraceae 024
[Yellow confuse with brownish bracts]
Growing at edge of banks with
Heather + Dryas + birch

Crucifer

88-132 [Delicate white Crucifer] 534025
On mossy slope with heather & Ledum
Growing up through birch & willow

534026

88-133 Festuca [brevissima] 40

Young plants near top of gravel bank beside sea. Isolated plants in exposed gravel. Occasional Poa glauca & Trisetum spicatum plants on seaward slope

88-134 Saxifraga rivularis (still sole) 20 (1)

✓In clay sandy bank beside stream from melting snow patch 534027

Scrophulariaceae Sudetaea ssp

88-135 Pedicularis (?) waddlie head albolabrica 028

Growing with Rumex and Trisetum spicatum on large soil sod that had fallen off top of cliffs - Common in adjacent tundra

88-136 Saxifraga tricuspidata (1)

At top of East facing bank. Isolated plants on open soil patch 029

88-137 Vaccinium vitis-idaea 030 (1)

at edge of tundra at top of east facing slope

88-138 Primulaceae 534031

[Purple flower heads] fleshy leaves growing high up on grassy east facing slope

88-139 Pedicularis 534032
flamea
growing on moss in heath / beach
hummock + tallest tundra
88-139A. Pedicularis capitata 033 (as 88-139)
✓88-140 Valeriana capitata (1)
growing in mossy tundra with 034
birch, + Ledum

Asteraceae

88-141 [Probe purple blue grey 035
Compositae]
as 88-140

88-142 [Beach leaf 036
Saxifrage subspecies]
Very moist slumping slope beside tundra
growing as isolated plants or clumps
in gravel over wet clay

88-143 Delphinium 037
growing in dry hummock in the
tundra with Hierochloe alpina +
Salix

✓88-144 Senecio lugens (1)
leaves somewhat fleshy 534038
growing in sunbaked dry
gravel at the top of the slope

88-145 Tofieldia coccinea 534039
as 88-144

88-146 Castilleja elegans 040
In open mossy tundra
Isolated plants

Crucifer

88-147 Pale yellow crucifer 041
Growing in disturbed gravel at Kugle Pond
Population heliotropic

✓ 88-148 Epilobium latifolium 042 (1)
as 88-147 - Plants not conspicuously heliotrophic.

88-149 Arctagrostis arundinacea 043
Grown in disturbed gravel at Kugle Pond. Dry exposed environment
Short plants with short inflorescence & purple panicle which appeared to be the result of habitat

✓ 88-150 Cnefro nana 044 (1)
→ as 88-149

✓ 88-151 Calamagrostis stricta var. (1)
borealis as 88-149 534045

✓ 88-152 Festuca richardsonii (1)
In gravel with some sand and moss 534046
first ridge back from the sea

✓ 88-153 Festuca Brachyphylla (1)
From sand beside roadway 047

✓ 88-154 "Lathyrus japonicus var aleuticus (1)
Beside road to DEW-line site
In exposed gravel 048

✓ 88-155 Arctagrostis arundinacea (1)
Adjacent culms. Striking spare 049
and pale inflorescence
Plants growing in gravel as 88-156

88-156 Castellegia elegans 050
Beside road south of DEW LINE site
in dry, sparsely vegetated tundra
Flower colours from deep pink to white
in the same colony

88-157 Luzula wahlenbergii 534051
as 88-156

∞

July 9 Site 19 500' above sea level
150 M

88-158 Yukon: Rapid River, Gravel Bar 68° 33' N 136° 50' W E

✓ Algae sample: Green and slimy growth on rocks in slow moving water

Arctagrostis survey from Northern tip of gravel bar
N.B. Arctagrostis flowers from the top of the panicle to the base with a conspicuous time lag in anthesis. Purple concentrated at the apex and margin of glumes and lemma causes pre-anthesis inflorescence to look more purple.
Colour morphs from very pink to whitish within 1m of each other

✓88-159 Poa pratensis (1) 534052
growing with Arctagrostis.
conspicuously delicate with fine spikelets in field pale green - little purple. Potential diploid?

88-160 Arctagrostis arundinacea
Conspicuously pink with conspicuously substantial spikelets. 50 cm from 88-159 534053

88-161 Arctagrostis arundinaceae
Large well established clump 50 cm from
88-160 Branches straight out or
slightly erect. [NOT DROOPING] 534054
White tips purple panicle

✓ 88-162 Arctagrostis arundinacea (1)
Adjacent to 88-161 slightly closer to
the water; slightly earlier stage of 055
flowering perhaps Panicle more purple

✓ 88-163 Poa pratensis 056
- Culm to 50 cm high; lower
panicle branches slightly reflexed;
spikelets conspicuously delicate.
Growing beside

✓ 88-164 Arctagrostis arundinacea (1)
2n=56 Culms to 75 cm high 534057
Lower panicle branches spreading but
at an angle < 90° to the culm
(not drooping). Stiff aspect to
inflorescence.
[Looked for but found no
evidence of root connections
between clones]
88-164 Rhizomes deeper 1½-2 cm
than 88-163
[The dried jacket juice is dissolving
the red dye off the book cover]

534058

✓ 88-165 Festuca rubra ① 43
glabrous phalets
Dense clump on wet sand at edge of gravel bar

✓ 88-166 Artemesia tilesii 059 ①
pink

88-167 Artemesia borealis (?) 060
yellow

88-166 & 88-167 growing adjacent on sand at the end of the gravel bar

88-168 Festuca rubra 061
Sparsely hairy lemmas
Dense clump 5 m from 88-165 growing in wet sand at edge of gravel bar

✓ 88-169 Arctagrostis arundinacea ①
Conspicuously short panicle 062
branches, leaf width suggest a 2n = 56 in this environment. Plant growing in some shelter from willow bed adjacent Epilobium plants

88-169A Caryophyllaceae 063
as 88-166

88-170 Elymus 534064
as 88-165 Common

88-171 Artemesia frigida 534065
(Silver grey leaves)
Forming cushions on wet sand of gravel bar

[lenensis]
✓88-172 Festuca arvicultia / lenensis (1)
Isolated plant in gravel bar 066
Conspicuous by short glaucous leaves small, almost F. saxi montana aspect to inflorescence. Only one panicle spreading of anthesis. Only one other plant found on gravel bar. Probably washed off hillsides during run off.

✓88-173 Festuca lenensis (1)
glabrous leaves Towards upstream 067
End of gravel bar. Leaves curled over when fresh

✓88-174 Festuca richardsonii (1)
Glaucous + hairy spikelets growing with 068
Astragalus in clump on gravel bar
reddish blue colour to spikelets

88-175 Artemesia 069
Vivid green, glabrous leaves

88-176 Festuca rubra s.l. 534 070
Very wide flat leaves
Spikelets green with reddish tinge
but hairy

✓ 88-177 Agrostis scabra (1) 534071
Growing among rocks on gravel bar
Note long awn

88-178 Arctagrostis arundinacea 072
Conspicuously sparse inflorescence
Leaf width suggests 2n=56
Growing in gravel + sand pushing up between 2 boulders. Culms likely heat dressed on a sunny day HEAT!

✓ 88-179 Festuca brachyphylla (1)
Isolated plant growing thru cracks in the gravel. Culms bright red 073

88-180 Elymus 074

88-181 Arctagrostis (hybrid ? - last fall) arundinacea 075
Short stiff branches, tight inflorescence
Short florets
Growing in exposed gravels of gravel bar. Leaves intermediate size

✓ 88-182 Algae sample Yellow green slime in shell back water of Rapid Bar at Site 19

5340 76

✓88-183 Poa leptocoma (1)
growing at edge of willow island
of the gravel bar

end site 19

(Site 21)

YUKON: Approx. 10 miles west of Mt. Davies Gilbert
68° 33'N; 137° 17'W July 9th BLOW RIVER
ALBION SHALE AND SANDSTONE

✓88-184 Festuca brachyphylla / (1)
growing through moss bed / in
gravel on steep slope 5340 77

✓88-185
ALGAE Brownish yellowish filament
attached to rocks in small creek

✓88-186 As above. Vivid green slime
in stagnant pool

88-187 Arctagrostis arundinacea 5340 78
Growing through moss on edge of
Gneiss in ribbon patterned ground
Well drained + willow ledeen Bilberry
and mountain cranberry

✓88-188 Festuca altaica Tussock (1)
in Ribbon patterned tundra 5340 79
Growing with Lupin + bilberry on raised
ground. Bench common in arctic. Growing
through moss

534082
✓ 88-189 Saussurea angustifolia (1) 45
Site 38 Tall plants growing through moist moss at the bottom of a hollow in flattened ground Short plant from top of adjacent dry lichen + moss ridge

✓ 88-190 Festuca lenensis (3)
Plant blue green; growing associated with Legume [illegible] on exposed 081
gravel slope that has some Dryas & Willow patches
[Common on hillside Colour variation from very glaucous blue gray to yellow green on the leaves Most inflorescences reddish brown; some yellowish green
Panicles with branches ascending although long awns are exposed but not shedding pollen. [long awns conspicuous]
Often growing as isolated plants among larger rocks on hillside
800' 240m

Site 22 YUKON: CREST WITH BLUE LAZULITE Deposits (Fe, Na, Phosphate) 68° 33'N; 136° 46°W
1200' 328m 88-191 Richardson Mtns
88-191 Festuca lenensis west of Rapid creek (3)
Growing in MOSS on top of hill 534082
Spikelets aber Almost 90° to rachis
leaves Blue green Often in exposed gravel areas..

88-190.

There is a different coast to the inflorescence
Thurs 88-190 more delicate. Shorter culms.
400' higher - more exposed environment
not necessarily the whole story

88-192 Festuca Brachyphylla 5340847 3
Culms red Plants growing out of moss
with hillocky or wetter in vegetated
hollows

The panicle open panicle appressed
character is conspicuous when extreme
and when all of the population in one area
88-190 looks the same.
Members of population 88-192 on the
side of hill have appressed inflorescence
88-192A. After 12 hours waiting to be photographed. before 088
many inflorescences closed [as 88-192] being pressed

✓88-193 Rhodiola integrifolia 085 (1)
10 July 1988

✓88-194 Festuca brachyphylla 5340846 (2)
10 July as 87-245. (Silv 23)
Growing with Dryas near top of hill
Exposed habitat Moose Channel formation
Dellaic soil paleocene, acidic.
Small patches growing with
Empetrum and in shade of willow
on mossy bank

[H How does stunted F brachyphylla
differ from hillocky F. brachyphylla

88-194A → CAN 536186

N.B. long flowering culms (relatively) with few spikelets. F. brachyphylla well such long culms would usually have longer leaves and more spikelets

Leaves ~~recurving~~ recurving base of plant somewhat tangled appearance

Spikelets reddish green

Festuca on highly eroded areas where nothing much else is growing. Poa glauca P. arctica x Kingii in the area are noticeably stunted

Broader Festuca brachyphylla ssp. breviaristata]

88-195 Festuca [brachyphylla of broad sense] Site 23 at top of eroding clay bank Several plants with culms from last season. No 1988 inflorescences yet 68°42'N 136°33°W 534087

√88-196 Calamagrostis purpurascens (1) 088
Mid way up steep bank
[Some 1988 spikelets have 2 florets]

√88-197 Hedysarum mackenzie 534089 (1)
Dominant on flats of steep bank

88-198 Yukon Eagle Creek
Site 23 533305
Fast flowing creek
with large boulders

88-199 Yukon Shingle Point
Landing Strip 68°58'N 137°15'W.
Festuca brachyphylla 534090
growing in gravel observed at
anthesis 5th July

88-191A as 88-191 533304 (5)
(Revisited) site 88-191 site 22 to photograph
11 July Plants in full anthesis 11 am
Anthers dangling Spikelets at 60°-70°
right angles to inflorescence rachis
South West facing slope July 11 (same as 88-190)
(Revisited) 88-190A at 11:35 Anthesis (2)
exposed Inflorescences reddish brown
compact Occasionally a spikelet at 60°
to rachis Spikelet position conspicuous
Slope facing South-west 533303

Site 24 68°12'N 136°35'W
Last years 2n=14 plants

12:10 pm Inflorescences purple
blue; Many spikelets pre-anthesis
Occasional spikelets
spreading at anthesis

534091

✓88-200 Festuca lenensis (4) 47

Some post-anthesis plants: spikelets appressed. Both anther conditions seen in inflorescence. West facing slope

88-201 Cruciferae On eroding slope 534092
Dryas in front heavy hollows
Salix fraseri tricuspidata, limited birch and willow
Algae samples
✓88-202 Gravel from fast flowing small creek at site 24

✓88-203 More obvious algae + brown slime in slower side seepage flowing into main creek

✓88-204 Green foamy slime in still or slow flowing seepage

✓88-205 Vivid dark blue green slime on exposed seepage at bottom of snow melt patch

Arnica lessingii (1)
✓88-206 Pale yellow flowers
Head drooping. Growing between
(Site 24) Festuca altaica hummocks
with willow + moss 534093
Snow patch

✓ 88-207 Festuca altaica 534096 (1)

1 pm Spikelets with stigmas exposed
1 PM Detached anthers curled by long filaments on ends, otherwise anthers not obvious
Specimens with another Festuca also 1 cm long and really standing up & flowering in the weed

✓88-208 Festuca lenensis 095 1

Site 25 68°03'N 136°45'W

previously named lenensis / Helictotrichon auriculata

Spikelets at right angles to rachis

1:25 PM Flat hill top 2800'
East facing slope of saddle
Very sparse vegetation
Common in crevices in hillside

2 Photographs from hillcrest - one showing white shingle creek at edge of White Mountains 68°

Site 26A 1600' Eroded Dryas crack
+

88-209 Calamagrostis purpurascens 534096

NEAR Fox Creek. Dryas + Pegmatite talus, + red/grey small boulder + larger boulder substrate Few other species e.g. Luzula + Hieracchloe alpina No Festuca
[Barn Mountains redbed soil]

534098
48

88-210 Asteraceae
Isolated plants on very dry exposed Dryad + fescue / legume alpine in Bath Mountains near Black Fox Creek Site chemicals in substrate appeared to limit growth

88-191A Repeat collection at Site 88-191 at 11am on 11TH July

88-190A Repeat collection at site 88-190 at 11:35a.m.

YUKON: coast line between Running River and Shingle Point 68°58'N 137°16'W 12TH July

✓ 88-211 Phippsia algida 534098 (1)
Growing in moist clay of gravel bar at Shingle Point Close to the river

88-212 Carex 534099
Growing on Flat delta at Running River in Willow / sedge meadow in marshier areas

88-213 Saxifraga [hirculus (?)]
growing among rocks in gravels at edge of steep banks 534100

5341 01 ~~5341c~~

√88-214 Saxifraga rivularis ①
On gravel slopes, often isolated plants sometimes with moss, Heather & Cinquefoil

88-215 [Small yellow Ranunculus 102
buttercup]
Growing in gravel with Saxifraga hirculus and Pluppsia algida at base of promontory beside gravel bar in soil built up from storm drift line

88-216 [Caltha? Calla?] RANUNCULACEAE
Growing in wet ground of sedge meadow
[Eriophorum many heads] 103
Isolated plant

88-217 Eriophorum 104
Coming into flower on low lying areas of Delta flats

√88-218 Hippuris vulgaris - common ①
in small pools of water in Running 105
River Delta flats

√88-219 Potentilla egedii 5341 06 ①
Just coming into bud.
Spreading by long red rhizomes on build up of organic debris at mouth of Running River

534107

88-220 Festuca brachyphylla 49
± ssp. brevissima Growing in
gravel build up behind drift wood
tree trunks on beach at Shingle Point
Isolated plants
Trisetum spicatum + Poa glauca at
same site

534108

✓ 88-221 Leymus mollis as 220 (2)

88-222 [Aquatic] Ranunculaceae 109
In wet swampy delta of run off creek
surrounded by Equisetum + Arctophila meadow. Plants
growing in deeper water or very moist
mud

88-223 Ceratagrostis arundinacea 110
Very different inflorescences in what seemed to
be the same clone [Could not have physical
connection] Growing among driftwood
on beach

✓ 88-224 Poa leptocoma (1)
Growing among driftwood on beach 111

✓ 88-225 Festuca brachyphylla [illegible] (2)
growing high up on bank in particularly
exposed site
534112

534113

88-226 Festuca richardsonii
growing among gravel at base of cliffs
Spreading by rhizomes and not clumped
A few Trisetum spicatum plants
nearby Reminiscent of Newfoundland
coastal Festuca

✓88-227 Poa pratensis same habitat as 88-226 (1) 114

✓88-228 Trisetum spicatum 115 (1)
as 88-226

88229
Arctagrostis arundinacea 534116
as 88-226
Extremely exposed environment
Plants stunted due to dry exposed
positions: not yet in flower because of
the influence of cold air blowing off
Beaufort Sea 40m away.

NE At Shingle Point there is a front end
loader and a gravel dump truck. 12 July
walked there in action eating into shingle
bank where Jack Ramalee may well have
collected his Festuca anomalata record
An extensive search 2-3 km along the coast
both east and west of the DEW-LINE road
down to the shore has found specimens

of Festuca brachyphylla but no obvious
F. auriculata Searched 9 & 12 July
Farnalee's collection was 11th July
[Check young plants with thick bases]

√88-230 Papaver radicans 534117 (1)
Growing at base of cliff opposite DEW-LINE
Site in small localized area. Only
population seen along 5 Km of coast

√88-231 Myosotis alpestris (1) 118
as 88-230

√88-232 Arctagrostis arundinacea (1)
Plants with rhizomes growing in the same 20cm²
Expanded inflorescences a pinkish purple 119
Other inflorescences a dark purple
Arctagrostis dominated meadow
between runway and sea at Shingle
Point

√88 233 Poa glauca 120 (1)
Extremely common along the shore but
particularly well developed in disturbed
grounds around DEW-line site

88-234 [Cruciferae] Pink sepals, white flowers
In disturbed gravel at DEW-LINE beach
534121

88-235 Puccinellia 534122
as 88-234

88-236 [Wollie Comfoode] Asteraceae
as 88-234 123

✓88-237 Poa alpina as 88-234 (1)
124
common in the area, but not as common as P. glauca. Florets webbed but branches scabrous

✓88-238 ALGAE: YUKON
MOUTH OF RUNNING RIVER, WEST OF SHINGLE POINT. RUST RED SLIME GROWING OVER ROCKS AND PLANTS STEMS, IN STAGNANT POOL IN DELTA OF RIVER.

✓88-239 Festuca brachyphylla as 88-234 (2)
125

✓88-240 Oxytropis nigrescens 534126 (1)
YUKON: SHINGLE POINT; 3 KM directly South on dry exposed rises with lichen and little other vegetation J.G. Hallt

Sola 27TH July 13TH 69° 19' N 139° 35' W
YUKON: Buckland Hills 1600' 457 M
Observed Festuca altaica covering on south facing slope with Dryas, Heather, bullrush Poa glauca Trisetum spicatum

Poa arctica Oxyria Saxafraga reflexa
Taraxacum sp. Silene acaulis
Grassy, steep, south facing slope
with fine grained grey soil

On ridge: Lupin, Mountain Bromberry
Poa arctica Saxifraga tricuspidata /
Empetrum Ledum Potentilla sp. Arnica Crassulacea Rhodiola
Festuca auriculata/Senecio
Very exposed slope with limited Dryas &
tiny non-flowering Salix few soil under
rocks. Small isolated plant in flower,
Other vegetative only, likely flowers
soon.
Grassy Slope 600m

Site 28 600' 69°24'N 139°35'W
Hieraclem alpina Poa glauca Dryas
Potentilla Saxafraga flagellaris
Draba sp. Potentilla sp. Saxafraga
cernua
Steep hillside north facing slope with
sparse vegetation

N.E Slope Continuous green dominated by
Dryas + 2 species of Salix and herd
Observed Poa glauca + Poa arctica
Saxafraga tricuspidata
Rumex Parrya Polygonum (Bistort)
Wild flower

Walter Stipchenko
DIAND
Mike Cecile

Photographed Site 28 b down
F. Brachyphylla habitat in the foreground
F. lencadenis habitat in the background
F lencanus not common
Site 29 69° 27'N 140° 02'W

Black + brown pebbly, dry slope with Dryas
Seen baked
Observed
Dryas Empetrum Salix reticulata
willow, Hierochloe alpina
Isolated F. lencanus in very low site
Spikelets at 90° to racks at time of collection
anthers dangling in breeze 2:30 pm
Poa glauca, Hierochloe alpina Dryas
Willow & lichen
Tall plant from Collected area with
some soil build up around Bulbery
More moisture in soil
leaves really soft feeling - little sclerenchyma
Decrease leaves are longer and have grown
more rapidly Spikelets 30-40° to racks

The Alaska-Yukon
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From the Editorial Staff of ALASKA
magazine
Helen A. White et al. 1974

Mr W Dolan 403

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